

Leschi CSO Retrofit Project

General Information

The Leschi CSO Retrofit Project (C311062) will complete physical improvements that will reduce the frequency and/or volume of CSOs in the Leschi CSO basin (NPDES 26 - NPDES 36) by optimizing the performance of the combined sewer system.

Project website:

www.seattle.gov/util/LeschiBasin



Background

The Leschi Area is located in east Seattle along Lake Washington and covers approximately 405 acres (0.63 square mile). Within the Leschi Area, there are 11 NPDES Basins numbered 26 through 36. Flow is pumped from the East Pine Pump Station into the King County South Lake Washington Trunk and ultimately conveyed to the West Point Wastewater Treatment Plant (WWTP) for treatment and discharge. Once capacity of the combined sewer system is exceeded or bottlenecks in the system create hydraulic restrictions, the excess volume is discharged through the NPDES CSO outfalls to Lake Washington. Existing system infrastructure is performing under its expected capacity due to issues (e.g., debris, sags, failing pipe) along the Leschi Lake Line. This condition is resulting in CSOs to Lake Washington while capacity is available. The goal of these projects is to reduce CSOs within the Leschi Area basins (NPDES 26 – NPDES 36) to one or fewer overflows per year. There should be no increase in the frequency of SSOs along the Leschi Lakeline.

Implementation of this project is anticipated to eliminate several, if not all, of the proposed Long Term Control Plan (LTCP) projects in the Leschi area by improving conveyance. Based on post project monitoring, effectiveness of improvements will be determined. The backup plan for this project is the LTCP storage(s) implementation.

Project Scope

The following work is included in the project scope:

- Replace ~500 linear ft of 15-inch diameter pipe along the Leschi trunk sewer in Basin 36 (sag).
- Reline ~1,700 ft of 16-inch DI pipe with failing liner in Basin 36
- Remove HydroBrake at 046E-142 (between Basin 35 and Basin 36) and replace with orifice
- Low Flow Diversion in Basin 35 (~ 50 ft of 12-inch pipe and 3 MH structures)
- Replace ~1,000 linear ft of 18-inch diameter pipe along the Leschi trunk sewer in Basin 31 and Basin 34 (sag)
- Remove HydroBrake at NPDES 33 (MH046-171)
- Abandon CSO Outfall / Seal Overflow weir at NPDES 33
- Reline ~1,300 linear ft of 21-inch diameter pipe along the Leschi trunk sewer in Basin 28 to Basin 29 (hinder root growth)
- Remove HydroBrake at NPDES 29 (MH042-302).

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Contracting Opportunities

Schedule of Events	Target Date
RFQPA Release	Estimated month/quarter year
Pre-Proposal Conference and Site Visit	Estimated month/quarter year
Construction Advertisement	March 2015